

Applicant:

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Assignee:

National Semiconductor Corporation

Title:

Gate-Enhanced Junction Varactor

Serial No.:

09/903,059

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D. Farhani

Group Art Unit:

2814

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NS-4971 US

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COMMISSIONER FOR PATENTS Washington, D. C. 20231

AMENDMENT TO TEXT

Sir:

Responsive to the Office Action mailed 14 March 2002, please amend the above patent application as follows:

IN THE SPECIFICATION

Amend paragraphs 5, 22, 27, 72, 96, 97, 107, 112, 114, 116, 150, 168, 175, 180, 203 - 206, 216, 219, 222, 230, 234, 242, and 257 to read:

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Fig. 2a depicts a conventional single-ended Colpitts VCO formed with n-channel enhancement-mode insulated-gate FET QC, fixed-value inductor LC, current source IC. fixed-value capacitor CC, and varactor CE. A differential version of the single-ended VCO of Fig. 2a is depicted in Fig. 2b. The VCO in Fig. 2b consists of identical common-gate nchannel insulated-gate FETs QC and QD, identical fixed-value inductors LC and LD, identical current sources IC and ID, identical fixed-value capacitors CC and CD, and varactor CF. Letting L₀ here represent the inductance of each of inductors LC and LD, the oscillator in each of Figs. 2a and 2b provides an oscillator signal at variable frequency fo determined from Eq. 1 where capacitance C_O is now the series combination of (a) the fixed capacitance of 09903059

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